

POWER AMPLIFIER

KAC-Q62

SERVICE MANUAL

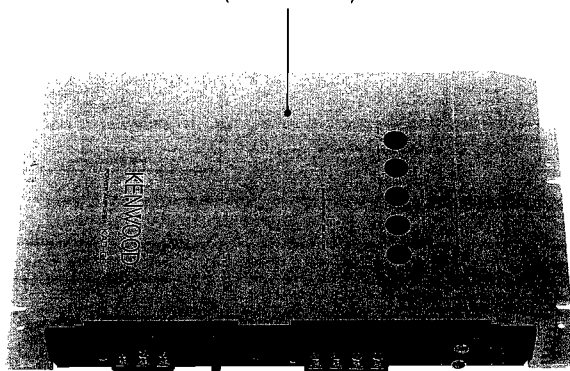
KENWOOD
4114

© 1994-3 PRINTED IN JAPAN
B51-6691-00 (B) 3665

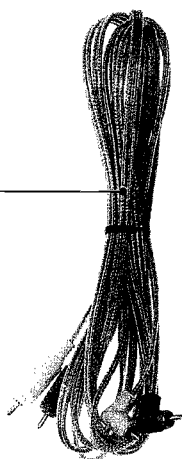
Front panel
(A64-0353-08)



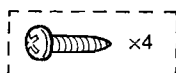
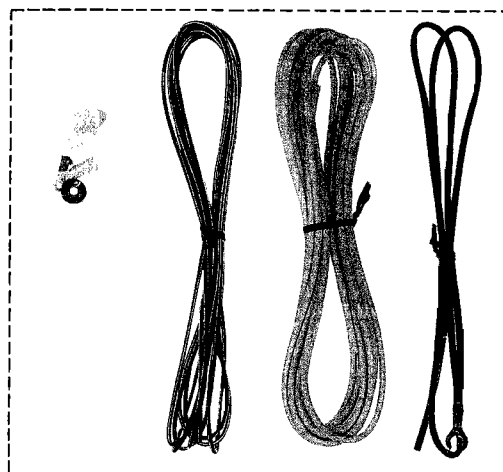
Heat sink
(F01-1442-08)



RCA pin cord set
(E type only)
(E30-4175-08)



Cord set (E type only)
(E30-4071-08)



Screw set
(N99-1603-08)

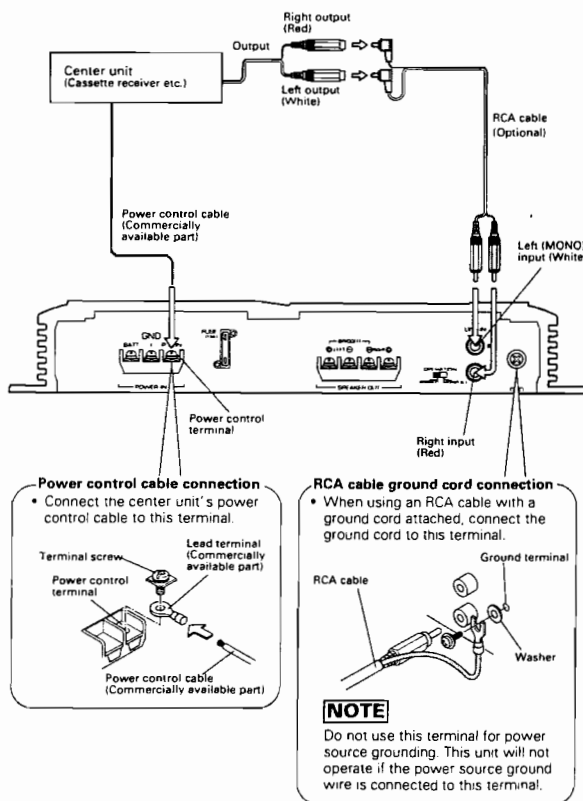
CONTENTS

CONNECTION	2
BLOCK DIAGRAM	4
CIRCUIT DESCRIPTION	5
ADJUSTMENT/ABGLEICH	7
PC BOARD (Foil side view)	9

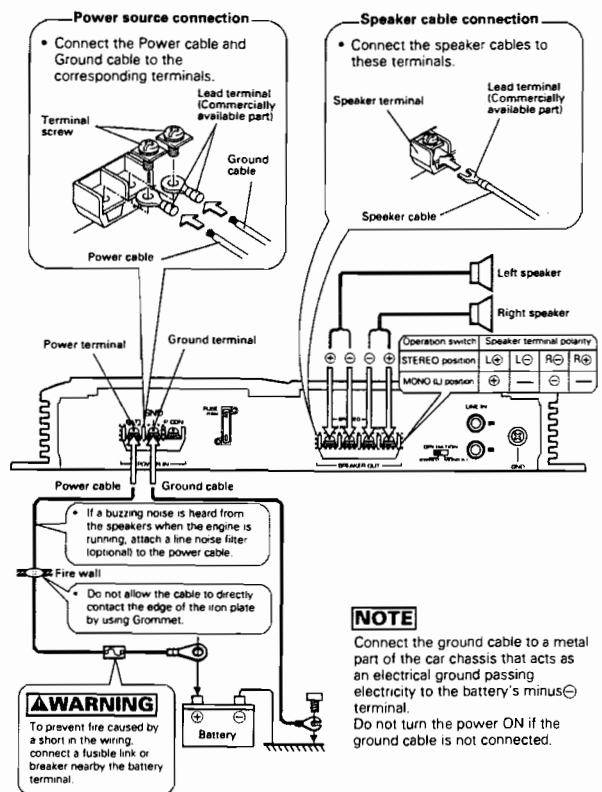
SCHEMATIC DIAGRAM	11
EXPLODED VIEW	15
PARTS LIST	16
SPECIFICATIONS	BACK COVER

CONNECTIONS

System Connection



Power and speakers cable connection

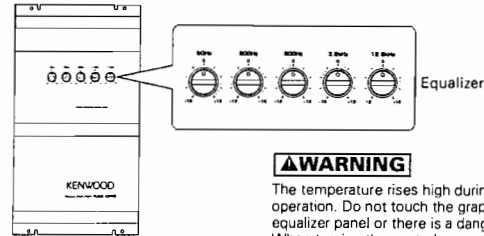


KAC-Q62 KAC-Q62

CONNECTIONS

Point 1 Graphic Equalizer

This unit is a power amplifier incorporating a graphic equalizer. The 5-band graphic equalizer provides signal equalization for the amplifier.



Adjustment

Adjust the level of each frequency band as desired.

To increase the level:

Turn the control of the band you wish to adjust to the right.



To decrease the level:

Turn the control of the band you wish to adjust to the left.

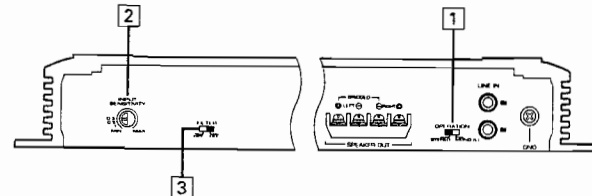


NOTE

If the treble or bass control is increased on the center unit and the graphic equalizer levels are increased at the same time, the sound may be distorted. Please adjust the graphic equalizer taking the balance with the positions of the treble and bass controls of the center unit into consideration.

Point 2 Flexibility

KAC-Q62 is compatible with a large variety of systems by combining the switches and functions described in the following.



1 Operation switch

This switch selects the input method of the signals to be amplified by amps A and B.

STEREO position

The input left and right signals are amplified separately. Use this position when the unit is used as a stereo amplifier.

MONO(L) position

The input left signal is amplified twice the normal boost level. Use this position when the unit is used as a high-power monaural amplifier. (The input right signal is not output.)

2 Filter switch

These switches allow filtering of the output signals.

HPF(High Pass Filter) position (12dB/oct. slope)

Only frequencies of 80Hz or higher are output. (Frequencies below 80Hz are cut.)

OFF position

The original sound without filtering is output.

3 Input sensitivity

Adjust this control according to the pre-out level of the center unit connected to this amp.



Center unit pre-out level	Amplifier input sensitivity
300 mV	MAX (0.15 V)
800~1000 mV	0.3 V
1.5 V	0.5 V

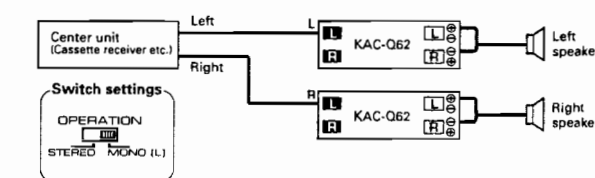
NOTE

Refer to "Specifications" on the center unit's instruction manual about the pre-out level.

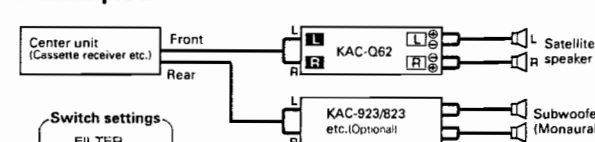
System Examples

Example 1

A high-power system can be implemented by combining two units of KAC-Q62.



Example 2



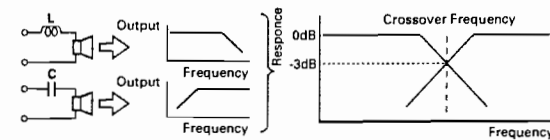
Set the Low pass filter switch to ON and set the frequency control to the 80Hz position.
Use a power amplifier equipped with the low pass filter function (KAC-1023/923/823 etc.).
For details on the system connection, power connection, etc., please refer to the instruction manual provided with your power amplifier.

Point 3 Tri-mode

With the KAC-Q62, a subwoofer can be added easily to the speaker system by making use of the properties of coils and capacitors. This mode of operation is called Tri-mode.

Principle of Tri-mode

- Method of frequency band division using a coil and capacitor ... in case of 6 dB/oct. slope



- Coil (L) : Passes low frequencies and blocks high frequencies. (Low pass)
- Capacitor (C) : Passes high frequencies and blocks low frequencies. (High pass)

Your coil and capacitor

Use the following formula to identify the coil and capacitor you need in your system.

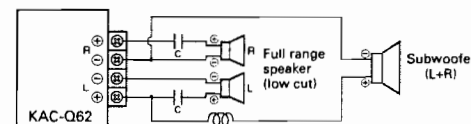
$$C = \frac{159000}{f_c \times R} (\mu F) \quad L = \frac{159 \times R}{f_c} (mH) \quad f_c = \text{Crossover Frequency (Hz)} \quad R = \text{Speaker Impedance (\Omega)}$$

Example :

When it is required to set a crossover frequency of 120 Hz using speakers with an impedance of 4 ohms, Prepare commercially-available coil and capacitor with the closest ratings to the results calculated from the formula above. The capacitor rating should be as close as possible to 331.25 (μF) and the coil rating should be as close as possible to 5.3 (mH).

System example

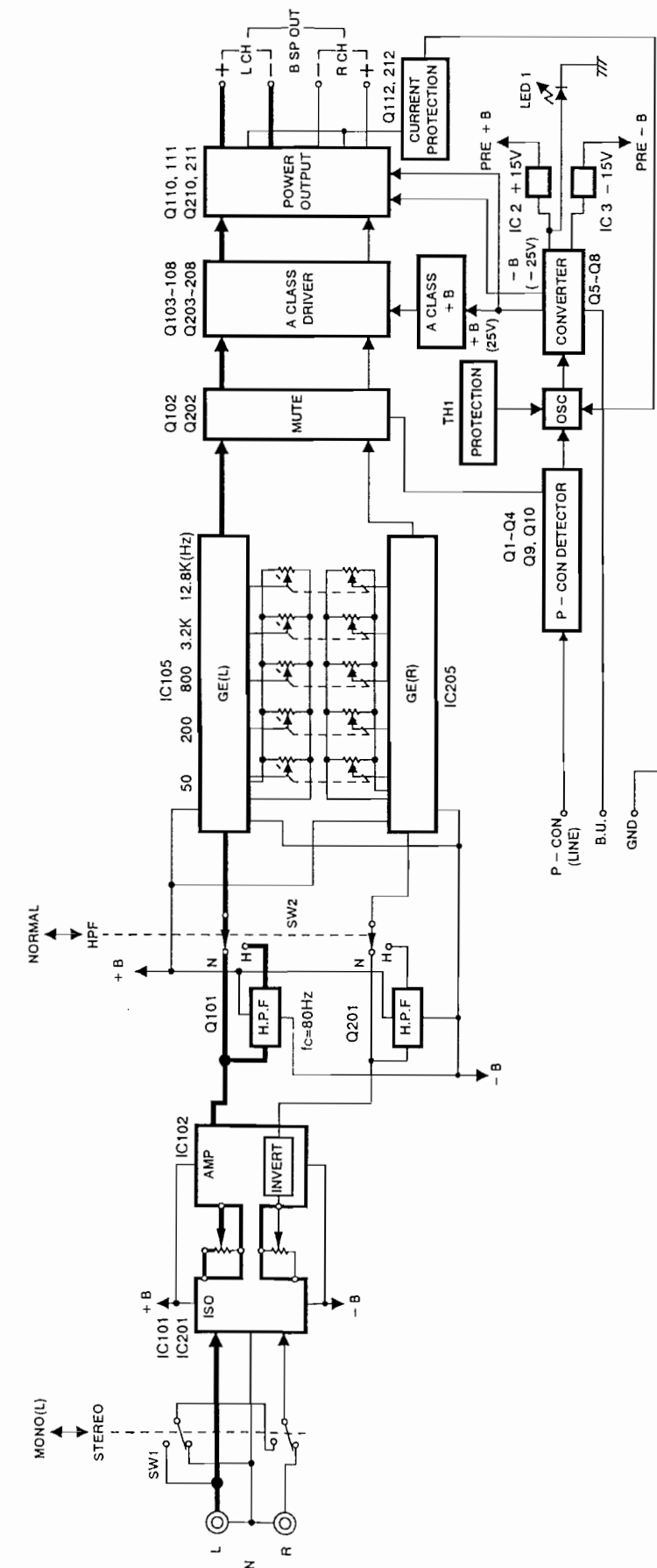
To use the Tri-mode configuration, set the OPERATION switch to the STEREO position.



CAUTION

Compose the speaker system so that the overall speaker impedance seen from the amplifier unit is no less than 2 ohms. If the impedance is less than 2 ohms, excessive current may flow and the amplifier unit may be damaged.

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

DC-DC PWB

Ref. No.	Ref. Name	Purposes, Functions	Operation, Condition, Compatibility
IC1	UPC494C	OSC for DC/DC converter	Clock oscillator, protection comparator.
IC2	NJM78M15FA	+15 V regulator power IC	+15 V supply.
IC3	NJM79M15FA	-15 V regulated power IC	-15 V supply.
Q1	2SC4640T/U	Switch	Transistor accepting the P.CON signal. ON when P.CON is H, OFF when it is L.
Q2	DTA124ES	Power ON/OFF	Turns OSC IC ON/OFF and muting circuits power ON/OFF.
Q3	2SC4640T/U	Mute control (SW) Power amp power control SW	Muting is turned ON by P.CON ON → Q3 OFF → Q4 ON. Power is supplied by P.CON ON → Q9 ON → Q10 ON.
Q4	DTA124ES	Mute driver	Driver of muting transistors Q102 and Q202
Q5, 6	2SA1782T/U	Discharging Transistor	Transistors for discharging the potential charged as gate capacitance of MOS FETs Q7 and Q8.
Q7, 8	2SK1257	MOS FETs for DC/DC converter (for current amp)	ON when gate is H, OFF when it is L. Push-pull configuration.
Q9	DTC124ES	Q10 driver	With time constant. Goes ON to turn Q10 ON when the set is operating.
Q10	2SA1782T/U	Power amp power SW	Delays the power supply to prevent shock noise. ON while the set is operating.
D1	RM4ZLF		
D2, 3	1SS131	Q2 and Q3 malfunction prevention	
D4, 5	1SS131	Q4 and Q9 malfunction prevention	
D6	1SS131	Reverse current prevention	Isolation between IC1 current and the cathode of D11.
D7, 8	1SS131	Q5 and Q6 malfunction prevention	Retains bias voltages of Q5 and Q6.
D9	FMU12S	Secondary + power rectifier diode	
D10	FMU12R	Secondary - power rectifier diode	
D11	1SS131	Voltage retention of muting driver Q4	Retains the muting power when P.CON goes OFF.
D12	1SS131	Noise prevention against Q10 ON/OFF	Delays the switching of Q10 to reduce P.CON ON/OFF shock noise.
D13, 14	DSK10C	3-terminal regulators for IC2 and IC3 malfunction prevention	Prevents output malfunction (latch down) of IC2 and IC3 when P.CON goes ON/OFF.

CIRCUIT DESCRIPTION

MAIN PWB, GE PWB

Ref. No.	Ref. Name	Purposes, Functions	Operation, Condition, Compatibility
IC101, 201	NJM4565LD	Isolation amps	
IC102	NJM4565LD	Differential amp	L CH positive phase and R CH negative phase amplification. (R CH used in TRI mode only)
IC105, 205	M5227P	GE IC	5-point: 50 Hz, 200 Hz, 800 Hz, 3.2 kHz, 12.8 kHz. Variable range ± 10 dB.
Q101, 201	2SC4640T/U	Active Transistor for HPF	
Q102, 202	2SC4640T/U	Muting Transistor	ON for muting, normally OFF.
Q103, 104, 203, 204	2SA1782T/U	Differential amps in main amp 1st stage	
Q105, 106, 205, 206	2SC2784(F)	Differential amps in main amp 2nd stage	
Q107, 207	2SD1200(Q)	Idling current temperature compensation Transistor	Idling adjustment using VR102/202 between collector and base. (Idling current: 30 mA)
Q108, 208	2SD2225(R)	Power amp drivers	
Q109, 209	2SB1473(R)	Power amp drivers	
Q110, 210	2SC4385(O, Y)	Main amp power Transistor	
Q111, 211	2SC1670(O, Y)	Main amp power Transistor	
Q112, 212	2SC4640T/U	Overcurrent detection Transistor (for protection)	Detection based on the potential difference of emitter resistance during load overcurrent.
D101-104, 201-204	1SS131	Electrostatic breakdown protection	
D105, 205	1SS131	Muting (crosstalk improvement)	
D106, 206	1SS131	Malfunction prevention of overcurrent detector circuit	
D107, 207	1SS131	Malfunction prevention of error amp IC7	Isolation between thermal shutoff detector circuit and load overcurrent detector circuit.

ADJUSTMENT/ABGLEICH

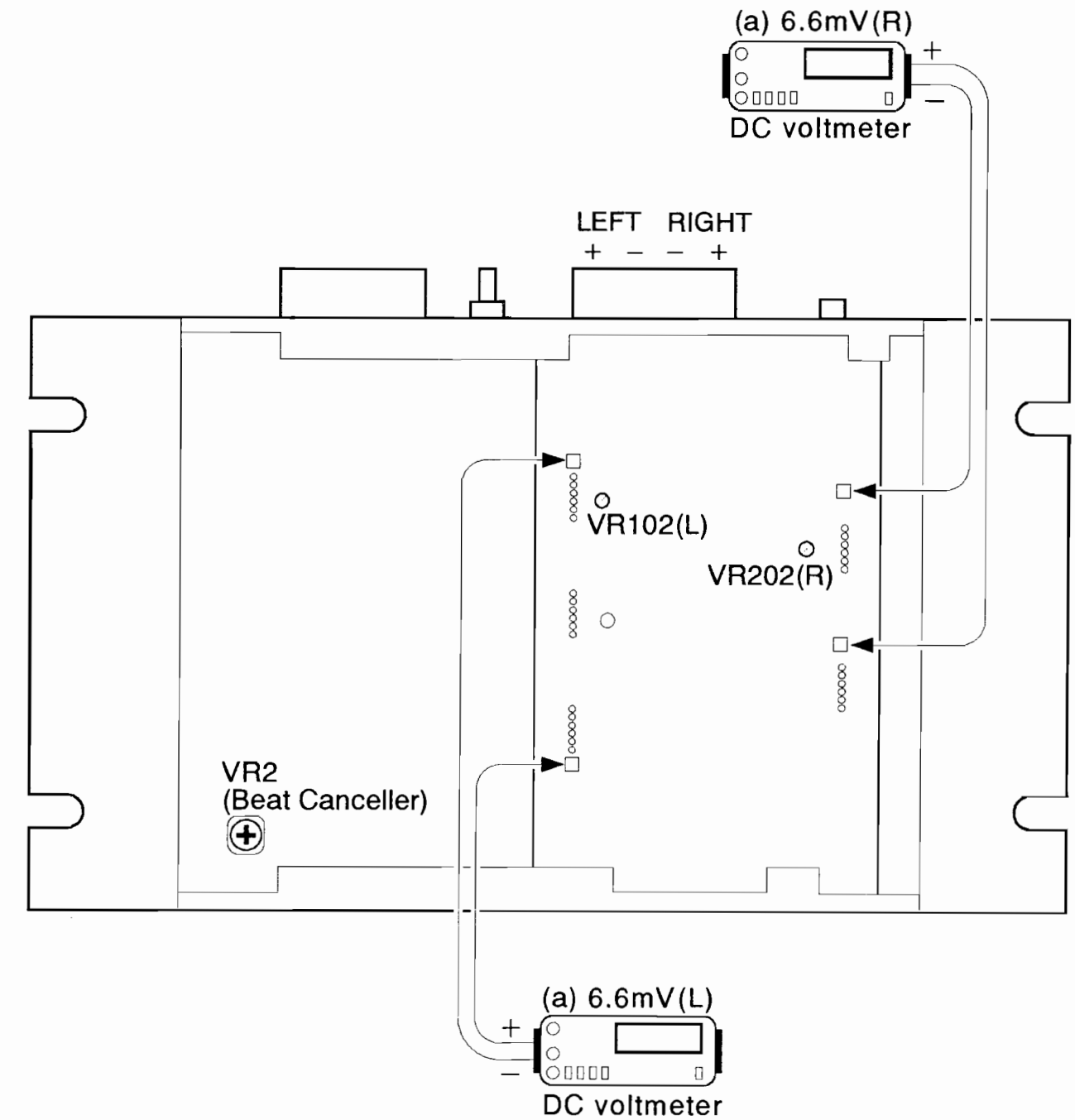
ADJUSTMENT

ADJUSTMENT

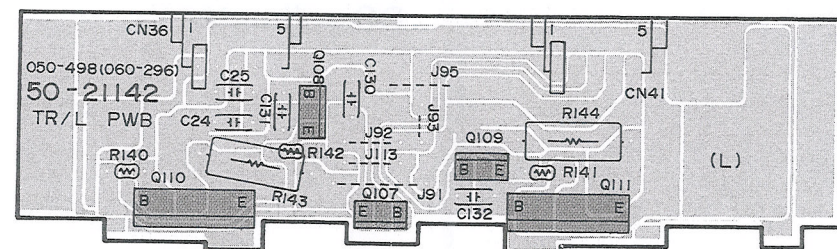
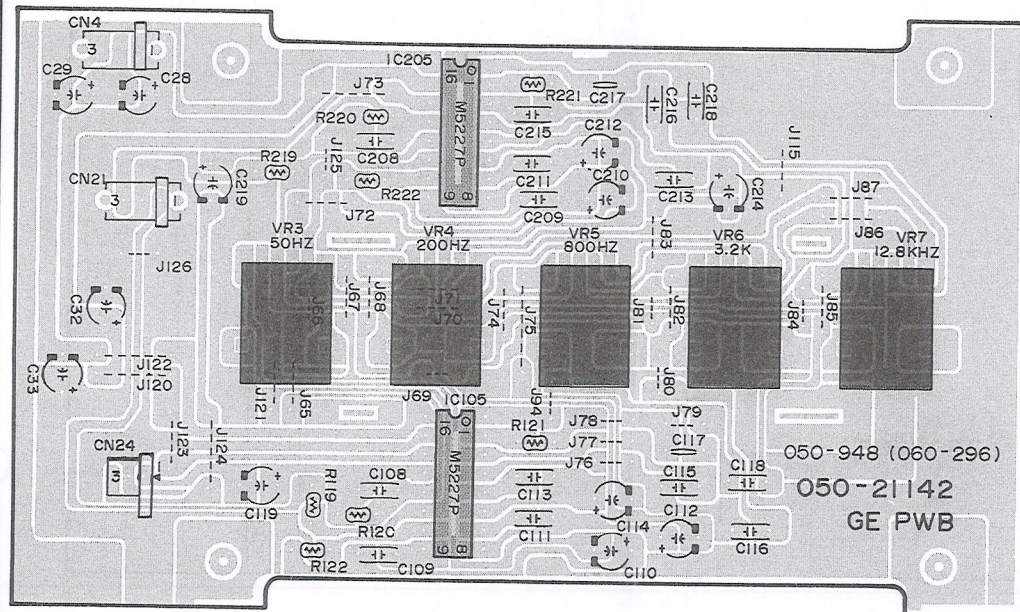
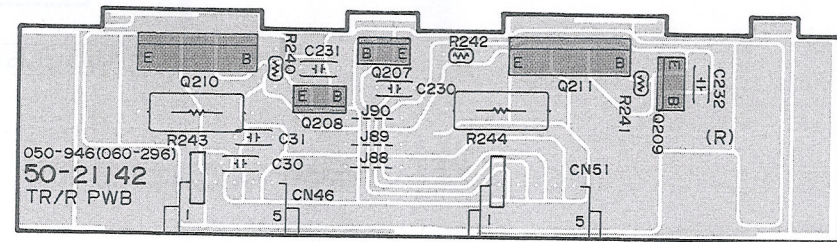
No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	SCASSETTE RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Connect a cassette receiver.							
1	BEAT CANCELLER	—	—	Receive AM BROADCAST STATION	VR2 (DC-DC PWB)	Only when there is BEAT NOISY SOUND. Ajust to minmal position.	
2	IDLE CURRENT	—	Connect a DC voltmeter to TP (MAIN PWB)	VOLUME : 0	VR102 (Lch) VR202 (Rch) (MAIN PWB)	6.6mV (30mA)	(a)

ABGLEICH

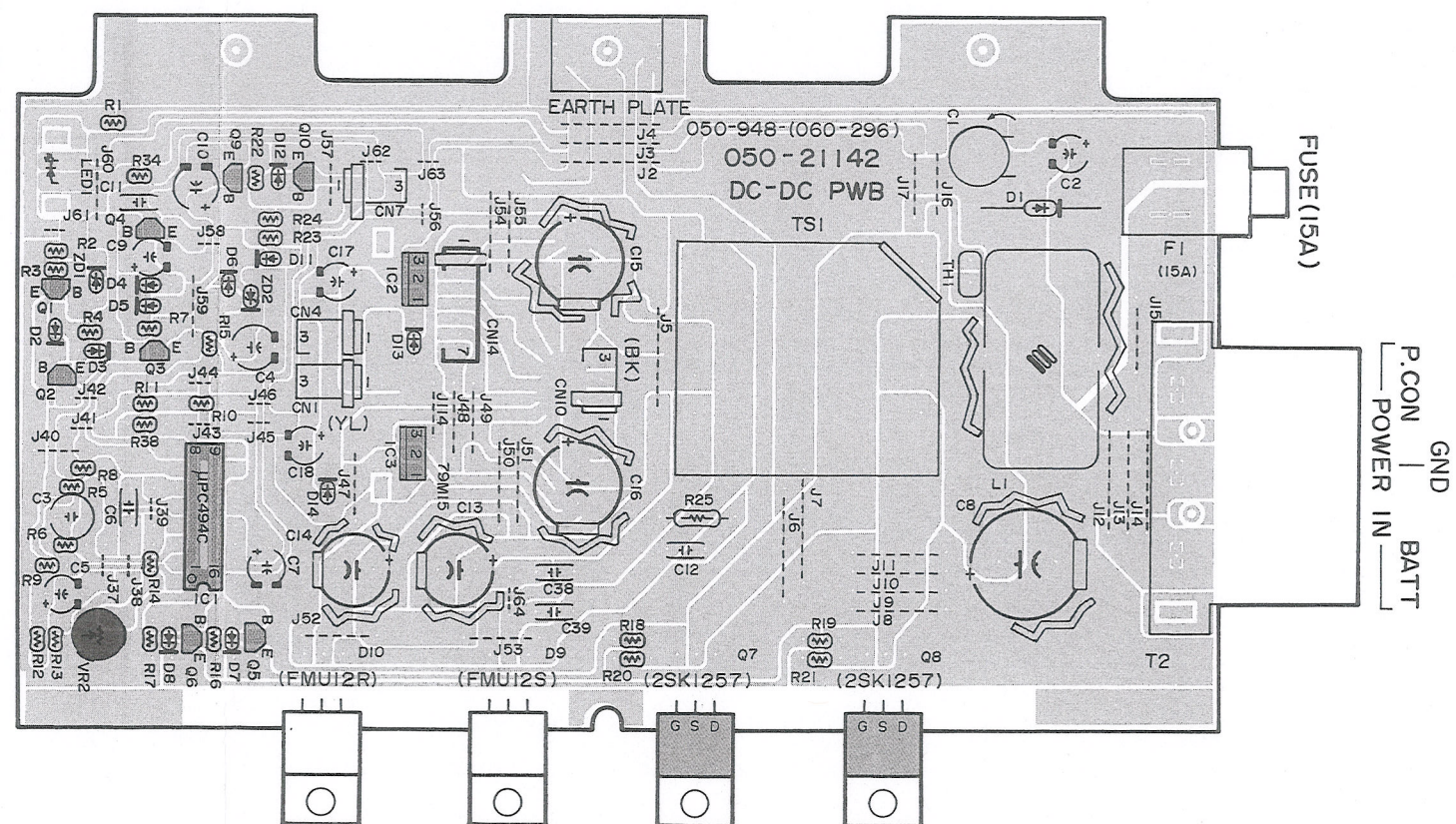
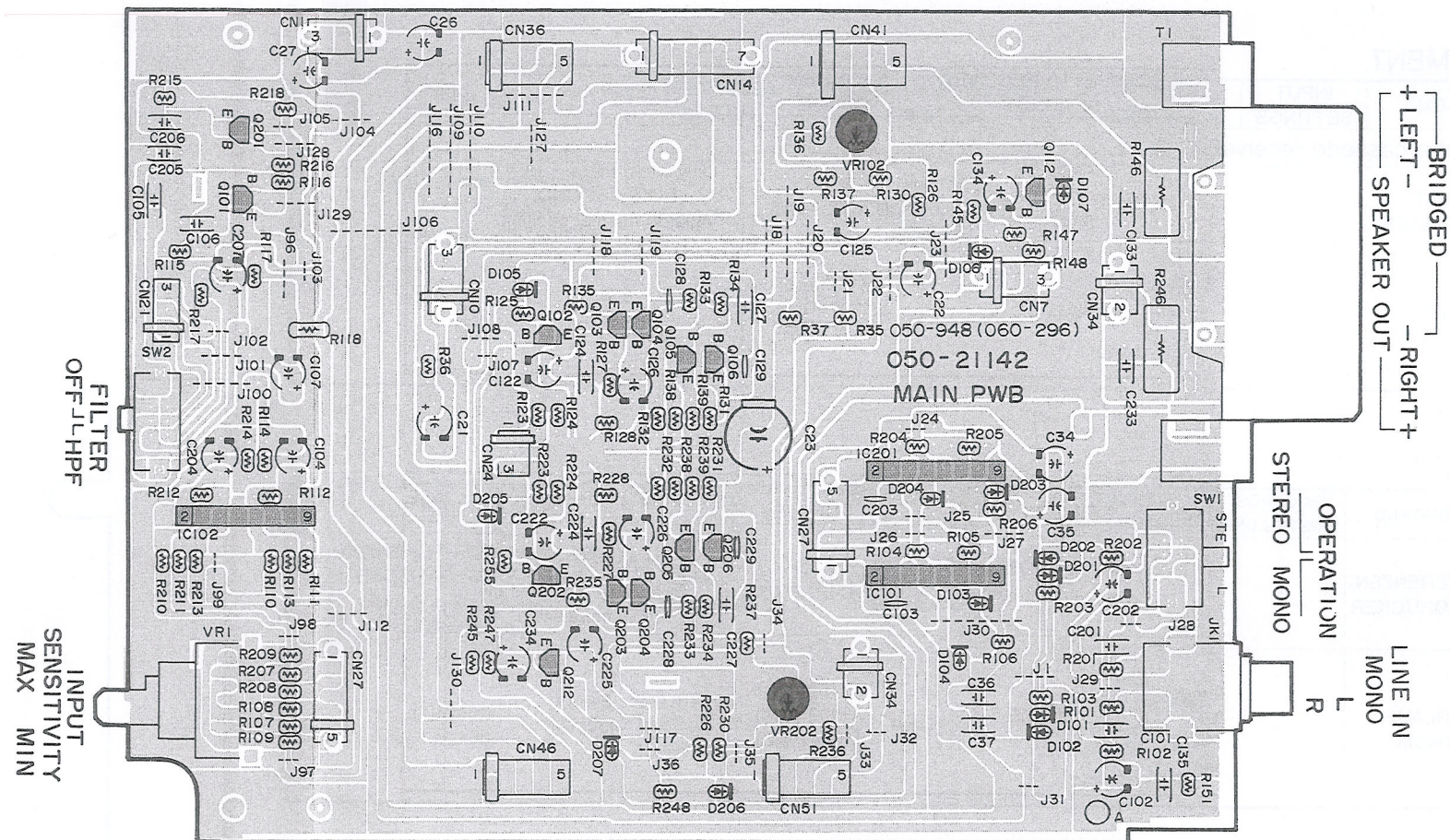
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANG-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEEN FÜR	ABB
1	INTERFERENZEN-UNTERDRÜCKER	—	—	MW-RADIOSENDER emofangen	VR2 (DC-DC PWB)	Nur wenn INTERFERENZEN oder STÖRGERÄUSCHE vorhanden sing. Auf die minimelposition.	
2	LEERLAUF-STROM	—	Einen Gleichspannungsmesser zu TP (MAIN PWB) anschließen.	VOLUME : 0	VR102 (Lch) VR202 (Rch) (MAIN PWB)	6.6mV (30mA)	(a)



P.C. BOARD ASSY (W02-1438-08)

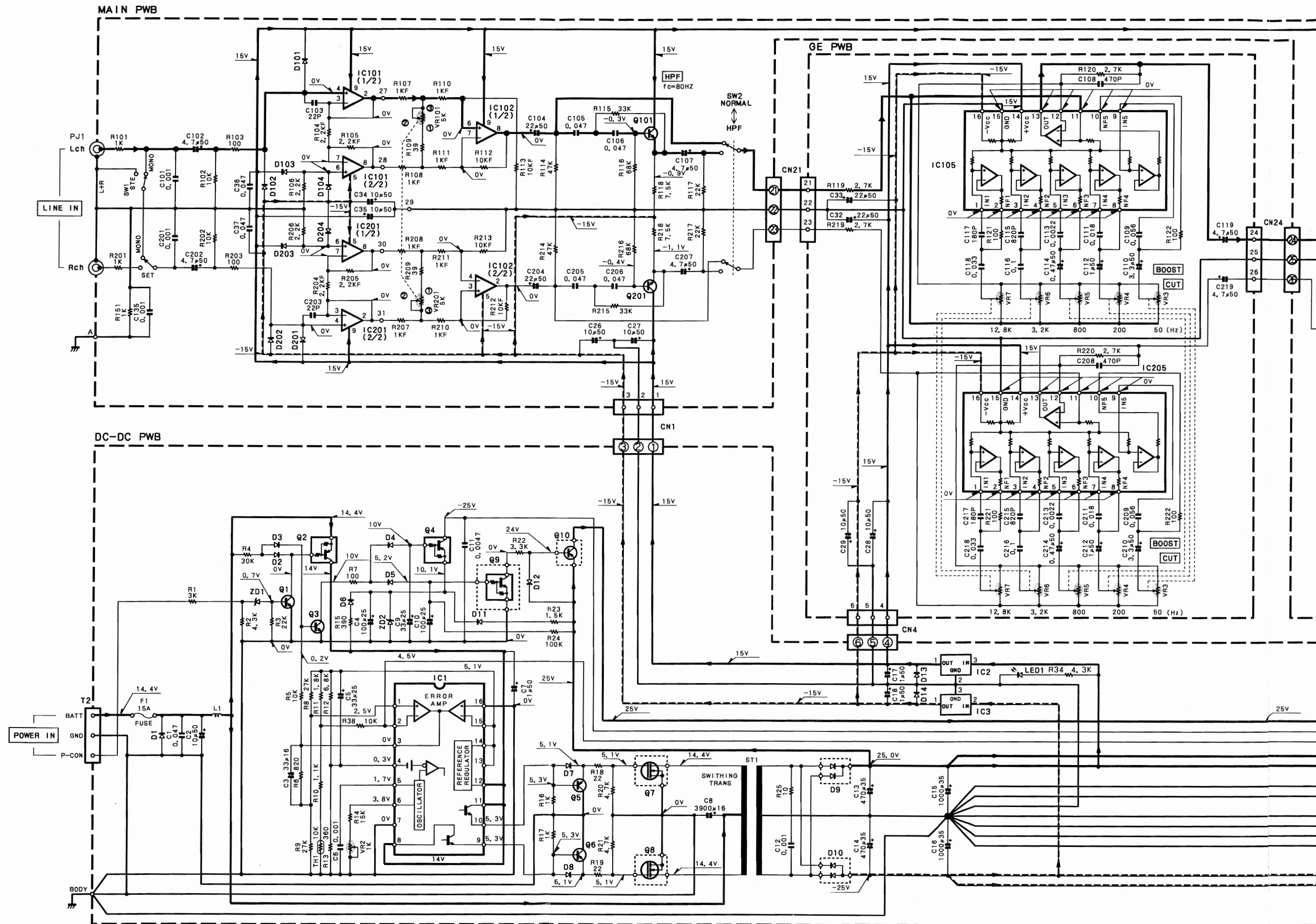


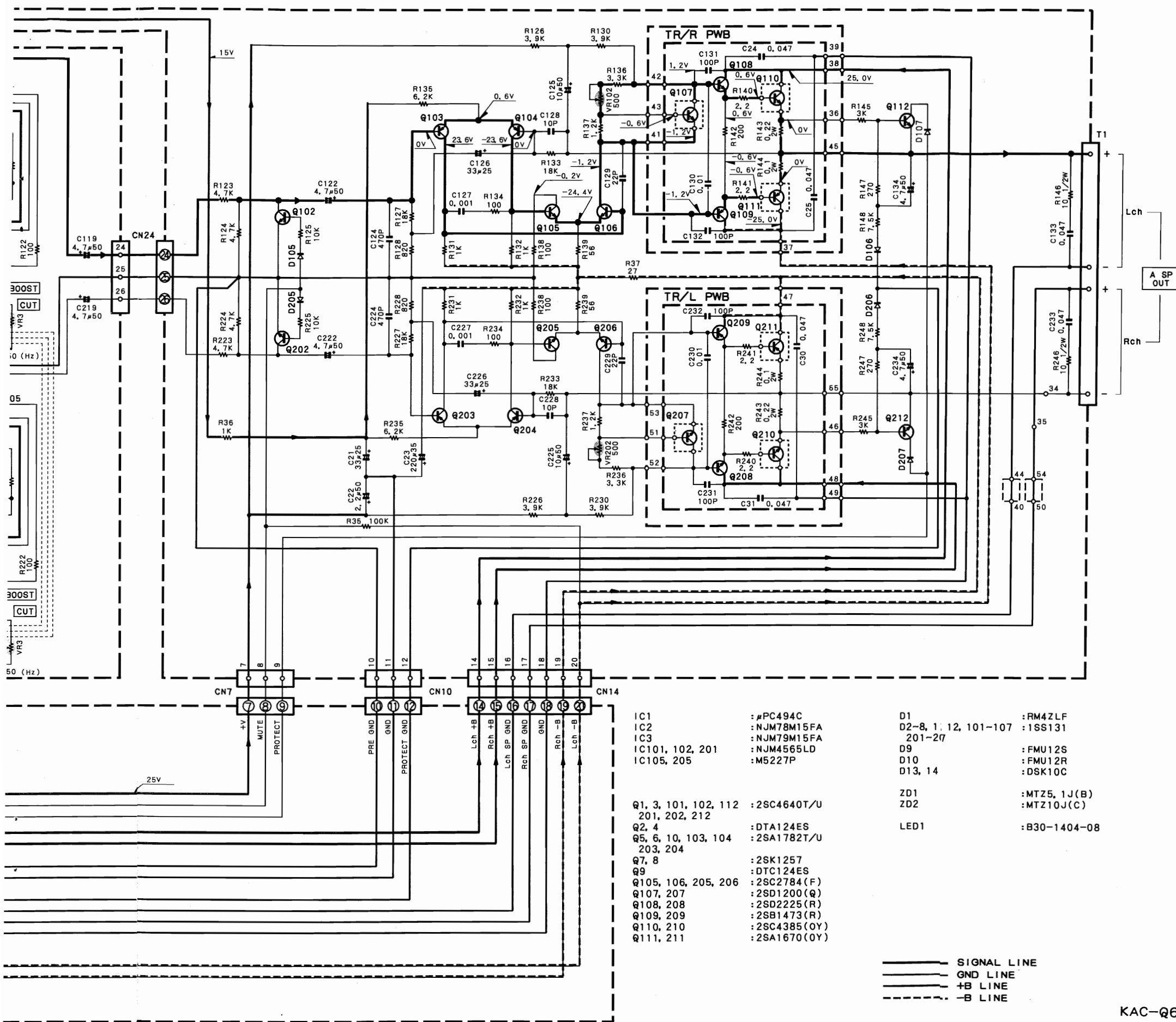
Refer to the schematic diagram for the values of resistors and capacitors.



P.C. BOARD ASSY

Ref. No.		Address
IC	Q	
	1	5E
	2	6E
	3	5E
	4	5E
	5	6E
	6	6E
	7	6G
	8	6H
	9	5E
	10	5F
	101	2E
	102	2F
	103	2F
	104	2G
	105	2G
	106	2G
	107	6B
	108	6B
	109	6C
	110	6B
	111	6C
	112	2H
	201	1E
	202	3F
	203	3F
	204	3F
	205	3G
	206	3G
	207	2B
	208	2B
	209	2C
	210	2B
	211	2C
	212	3F
1		6E
2		5F
3		6F
101		3H
102		3E
105		4B
201		3H
205		3B



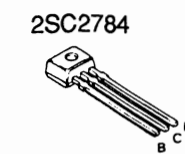


IC1 : μ PC494C
 IC2 : NJM78M15FA
 IC3 : NJM79M15FA
 IC101, 102, 201 : NJM4565LD
 IC105, 205 : M5227P

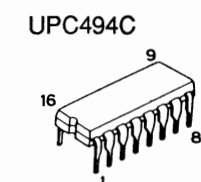
Q1, 3, 101, 102, 112 : 2SC4640T/U
 201, 202, 212
 Q2, 4 : DTA124ES
 Q5, 6, 10, 103, 104 : 2SA1782T/U
 203, 204
 Q7, 8 : 2SK1257
 Q9 : DTC124ES
 Q105, 106, 205, 206 : 2SC2784(F)
 Q107, 207 : 2SD1200(Q)
 Q108, 208 : 2SD2225(R)
 Q109, 209 : 2SB1473(R)
 Q110, 210 : 2SC4385(OY)
 Q111, 211 : 2SA1670(OY)

D1 : RM4ZLF
 D2-8, 1, 12, 101-107 : 1SS131
 201-207
 D9 : FMU12S
 D10 : FMU12R
 D13, 14 : DSK10C
 ZD1 : MTZ5, 1J(B)
 ZD2 : MTZ10J(C)
 LED1 : B30-1404-08

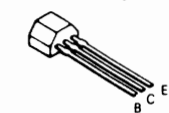
— SIGNAL LINE
 — GND LINE
 — +B LINE
 - - - -B LINE



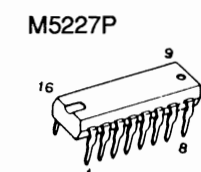
2SC2784



UPC494C



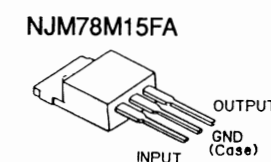
DTA124ES
DTC124ES



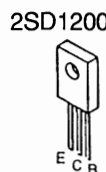
M5227P



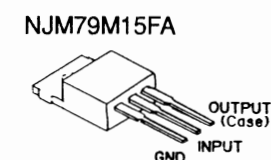
2SK1257



NJM78M15FA



2SD1200



NJM79M15FA



2SA1670
2SC4385

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KAC-Q62

Y08-6040-10

KAC-Q62
KENWOOD

KAC-Q62

PARTS LIST



Parts with the exploded numbers larger than 700 are not supplied.

KAC-Q62
(W02-1438-08)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KAC-Q62						
2	3A	*	A64-0353-08	FRONT PANEL		
3	1B	*	A84-0050-08	REAR PANEL		
4	3A		B19-0874-08	LED FILTER		
-			B46-0100-30	WARRANTY CARD		
-		*	B64-0371-00	INST.MANUAL		K
-		*	B64-0372-00	INST.MANUAL		E
6	1A	*	E30-4175-08	RCA PIN CORD SET		E
DC1	1A		E30-4071-08	CORD SET		E
7	3B	*	F01-1442-08	HEAT SINK		
F1	1A		F05-1537-05	FUSE (15A)		
-			H10-4436-08	PACKING		
-			H25-0336-04	P.E BAG (180X270X0.06T)		
-			H25-0341-04	P.E BAG (320X450X0.04T)		
-		*	H54-0173-08	ITEM CARTON CASE		
-		*	H64-0187-08	OUTER CARTON CASE		
212	2B		K29-5574-08	KNØB		
213	1A		N99-1603-08	SCREW SET		
A	1B		N89-3010-45	BIND B-TITE SCREW (3X10)		
B	2B, 3B		N89-3008-45	BIND B-TITE SCREW (3X8)		
C	2B		N15-1040-46	WASHER (M4)		
D	1B		N09-4026-05	CUP S-TITE SCREW (4X8)		
E	2A		N89-3006-46	BIND B-TITE SCREW (3X6)		
F	2B		N09-4095-08	FLANGE B-TITE SCREW (3X8)		
G	1B		N80-2006-45	PAN T.P SCREW (2X6)		
H	1A		N29-0053-05	NYLON RIVET		
P.C. BOARD ASSY (W02-1438-08)						
LED1			B30-1404-08	LED		
C1			CK45FF1H473Z	CERAMIC	0.047UF	Z
C2			CE04DW1H100M	ELECTRØ	10UF	50WV
C3			C90-2774-08	NP-ELECT	33UF	16WV
C4			CE04DW1E101M	ELECTRØ	100UF	25WV
C5			CE04DW1E330M	ELECTRØ	33UF	25WV
C6			CF92V1H102J	MF	1000PF	J
C7			CE04DW1H010M	ELECTRØ	1.0UF	50WV
C8			C90-2786-08	LED		
C9			CE04DW1E330M	ELECTRØ	33UF	25WV
C10			CE04DW1E101M	ELECTRØ	100UF	25WV
C11			CF92V1H472J	MF	4700PF	J
C12			CF92V1H102J	MF	1000PF	J
C13 , 14			CE04DW1V471M	ELECTRØ	470UF	35WV
C15 , 16			CE04DW1V102M	ELECTRØ	1000UF	35WV
C17 , 18			CE04DW1H010M	ELECTRØ	1.0UF	50WV
C21			CE04DW1E330M	ELECTRØ	33UF	25WV
C22			CE04DW1H2R2M	ELECTRØ	2.2UF	50WV
C23			CE04DW1V221M	ELECTRØ	220UF	35WV
C24 , 25			CF92V1H473J	MF	0.047UF	J
C26 -29			CE04DW1H100M	ELECTRØ	10UF	50WV
C30 , 31			CF92V1H473J	MF	0.047UF	J
C32 , 33			CE04DW1H220M	ELECTRØ	22UF	50WV
C34 , 35			CE04DW1H100M	ELECTRØ	10UF	50WV

E: Europe W: Without Europe P: Canada X: Australia
K: U.S.A. and Canada M: Without Europe, U.S.A. and Canada

 indicates safety critical components.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

(W02-1438-08)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C36 ,37 C101 C102 C103 C104			CF92V1H473J CF92V1H102J CE04DW1H4R7M CC45FCH1H220J CE04DW1H220M	MF 0.047UF J MF 1000PF J ELECTRO 4.7UF 50WV CERAMIC 22PF J ELECTRO 22UF 50WV		
C105,106 C107 C108 C109 C110			CF92V1H473J CE04DW1H4R7M CF92V1H471J CF92V1H563J CE04DW1H3R3M	MF 0.047UF J ELECTRO 4.7UF 50WV MF 470PF J MF 0.056UF J ELECTRO 3.3UF 50WV		
C111 C112 C113 C114 C115			CF92V1H183J CE04DW1H010M CF92V1H222J CE04DW1HR47M CF92V1H821J	MF 0.018UF J ELECTRO 1.0UF 50WV MF 2200PF J ELECTRO 0.47UF 50WV MF 820PF J		
C116 C117 C118 C119 C122			CF92V1H104J CK45FB1H181K CF92V1H333J CE04DW1H4R7M CE04DW1H4R7M	MF 0.10UF J CERAMIC 180PF K MF 0.033UF J ELECTRO 4.7UF 50WV ELECTRO 4.7UF 50WV		
C124 C125 C126 C127 C128			CF92V1H471J CE04DW1H100M CE04DW1E330M CF92V1H102J CC45FCH1H100D	MF 470PF J ELECTRO 10UF 50WV ELECTRO 33UF 25WV MF 1000PF J CERAMIC 10PF D		
C129 C130 C131,132 C133 C134			CC45FCH1H220J CF92V1H103J CF92V1H101K CF92V1H473J CE04DW1H4R7M	CERAMIC 22PF J MF 0.010UF J MF 100PF K MF 0.047UF J ELECTRO 4.7UF 50WV		
C135 C201 C202 C203 C204			CF92V1H102J CF92V1H102J CE04DW1H4R7M CC45FCH1H220J CE04DW1H220M	MF 1000PF J MF 1000PF J ELECTRO 4.7UF 50WV CERAMIC 22PF J ELECTRO 22UF 50WV		
C205,206 C207 C208 C209 C210			CF92V1H473J CE04DW1H4R7M CF92V1H471J CF92V1H563J CE04DW1H3R3M	MF 0.047UF J ELECTRO 4.7UF 50WV MF 470PF J MF 0.056UF J ELECTRO 3.3UF 50WV		
C211 C212 C213 C214 C215			CF92V1H183J CE04DW1H010M CF92V1H222J CE04DW1HR47M CF92V1H821J	MF 0.018UF J ELECTRO 1.0UF 50WV MF 2200PF J ELECTRO 0.47UF 50WV MF 820PF J		
C216 C217 C218 C219 C222			CF92V1H104J CK45FB1H181K CF92V1H333J CE04DW1H4R7M CE04DW1H4R7M	MF 0.10UF J CERAMIC 180PF K MF 0.033UF J ELECTRO 4.7UF 50WV ELECTRO 4.7UF 50WV		
C224 C225 C226 C227 C228			CF92V1H471J CE04DW1H100M CE04DW1E330M CF92V1H102J CC45FCH1H100D	MF 470PF J ELECTRO 10UF 50WV ELECTRO 33UF 25WV MF 1000PF J CERAMIC 10PF D		

E: Europe W: Without Europe P: Canada X: Australia
K: U.S.A. and Canada M: Without Europe, U.S.A. and Canada

⚠ indicates safety critical components.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

(W02-1438-08)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C229 C230 C231,232 C233 C234			CC45FCH1H220J CF92V1H103J CF92V1H101K CF92V1H473J CE04DW1H4R7M	CERAMIC 22PF J MF 0.010UF J MF 100PF K MF 0.047UF J ELECTRO 4.7UF 50WV		
JK1 T1 T2	2B 2A 1A	*	E63-0824-08 E70-0817-08 E70-0806-08	PIN JACK (2P) TERMINAL (4P) TERMINAL (3P)		
217	1A		J13-0602-05	FUSE HOLDER		
L1 ST1		*	L33-0994-08 L19-0539-08	SN COIL SWITCHING TRANS		
R104,105 R107,108 R110,111 R112,113 R143			RN14BK2C2201F RN14BK2C1001F RN14BK2C1001F RN14BK2C1002F RS14KB3DR22J	RN 2.20K F 1/6W RN 1.00K F 1/6W RN 1.00K F 1/6W RN 10.0K F 1/6W FL-PROOF RS 0.22 J 2W		
R144 R146 R204,205 R207,208 R210,211			R92-2110-08 RS14KB2H100J RN14BK2C2201F RN14BK2C1001F RN14BK2C1001F	METAL-PLATE 0.1 K 2W FL-PROOF RS 10 J 1/2W RN 2.20K F 1/6W RN 1.00K F 1/6W RN 1.00K F 1/6W		
R212,213 R243 R244 R246 VR1			RN14BK2C1002F RS14KB3DR22J R92-2110-08 RS14KB2H100J R10-0626-08	RN 10.0K F 1/6W FL-PROOF RS 0.22 J 2W METAL-PLATE 0.1 K 2W FL-PROOF RS 10 J 1/2W POTENTIOMETER (5KBX2)		
VR2 VR3 -7 VR102,202		*	R12-1830-08 R10-0647-08 R12-1829-08	TRIMMING POT. (1K) POTENTIOMETER (5KBX2) TRIMMING POT. (500)		
SW1 ,2			S62-0826-08	SLIDE SWITCH		
D1 D2 -8 D9 D10 D11 ,12		*	RM4ZLF 1SS131 FMU12S FMU12R 1SS131	DIODE DIODE DIODE DIODE DIODE		
D13 ,14 D101-107 D201-207 IC1 IC2			DSK10C 1SS131 1SS131 UPC494C NJM78M15FA	DIODE DIODE DIODE IC(SWITCHING REGULATOR) IC(VOLTAGE REGULATOR/ +15V)		
IC3 IC101,102 IC105 IC201 IC205		*	NJM79M15FA NJM4565LD M5227P NJM4565LD M5227P	IC(VOLTAGE REGULATOR/ -15V) IC IC(5CH GRAPHIC EQUALIZER) IC IC(5CH GRAPHIC EQUALIZER)		
Q1 Q2 Q3 Q4 Q5 ,6		*	2SC4640T/U DTA124ES 2SC4640T/U DTA124ES 2SA1782T/U	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q7 ,8 Q9		*	2SK1257 DTC124ES	TRANSISTOR DIGITAL TRANSISTOR		

E: Europe W: Without Europe P: Canada X: Australia
K: U.S.A. and Canada M: Without Europe, U.S.A. and Canada

⚠ indicates safety critical components.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.


Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

(W02-1438-08)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q10		*	2SA1782T/U	TRANSISTOR		
Q101,102		*	2SC4640T/U	TRANSISTOR		
Q103,104		*	2SA1782T/U	TRANSISTOR		
Q105,106		*	2SC2784(F)	TRANSISTOR		
Q107			2SD1200(Q)	TRANSISTOR		
Q108			2SD2225(R)	TRANSISTOR		
Q109			2SB1473(R)	TRANSISTOR		
Q110			2SC4385(O,Y)	TRANSISTOR		
Q111			2SA1670(O,Y)	TRANSISTOR		
Q112		*	2SC4640T/U	TRANSISTOR		
Q201,202		*	2SC4640T/U	TRANSISTOR		
Q203,204		*	2SA1782T/U	TRANSISTOR		
Q205,206		*	2SC2784(F)	TRANSISTOR		
Q207			2SD1200(Q)	TRANSISTOR		
Q208			2SD2225(R)	TRANSISTOR		
Q209			2SB1473(R)	TRANSISTOR		
Q210			2SC4385(O,Y)	TRANSISTOR		
Q211			2SA1670(O,Y)	TRANSISTOR		
Q212		*	2SC4640T/U	TRANSISTOR		
TH1			DTN-D103K4D-NHA	THERMISTOR 10K		
ZD1			MTZ5.1J(B)	ZENER DIODE		
ZD2			MTZ10J(C)	ZENER DIODE		

E: Europe W: Without Europe P: Canada X: Australia
 K: U.S.A. and Canada M: Without Europe, U.S.A. and Canada

 indicates safety critical components.

KAC-Q62

SPECIFICATIONS

Specifications subject to change without notice.

Audio section

Max power output (4 Ω)	
Normal.....	80 W \times 2
Bridge.....	180 W \times 1
Rated power output (4 Ω)	
Normal.....	40 W \times 2 (20 Hz ~ 20 kHz, less than 0.08 % THD)
Bridge.....	110 W \times 1 (1 kHz, 0.08 % THD)
Rated power output (2 Ω)	
Normal.....	55 W \times 2 (1kHz, 0.8 % THD)
Frequency Response.....	6 Hz ~ 65 kHz (-3dB)
Signal to Noise Ratio.....	100 dB
Sensitivity (MAX).....	0.15 V (rated output)
Sensitivity (MIN).....	3.0 V (rated output)
Input impedance.....	10 k Ω
Damping Factor(100 Hz).....	More than 100

EQ section

Equalizer Center Frequency.....	50 Hz, 200 Hz, 800 Hz, 3.2 kHz, 12.8 kHz
Frequency Range.....	-10 ~ +10 dB

General

Operating voltage.....	14.4 V (11 ~ 16 V allowable)
Current consumption.....	16 A (1 kHz, 10%)
Dimensions (W X H X D).....	220 X 48 X 200 mm 8-11/16 X 1-7/8 X 7-7/8 in.
Weight.....	2.1 kg (4.7 lb)

KENWOOD CORPORATION

Alive Mitake, 2-5, 1-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD SERVICE CORPORATION

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 Plaza Chase, Cl. 47 y Aquilino de la Guardia, Panama, Republic de Panama

TRIO-KENWOOD U.K. LIMITED

Kenwood House, Dwight Road, Watford, Herts, WD1 8EB, United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrucker Str. 15, 63150 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori, 7/9 20129 Milano, Italy

KENWOOD ESPANA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)

P.O. BOX 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37 Tower 1, Metroplaza, 223 Hing Fong Road,

Kwai Fong N.T. Hong Kong

KENWOOD ELECTRONICS SINGAPORE PTE LTD

No 1 Genting Lane #07-00, KENWOOD Building, Singapore, 1334

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD

10th Floor, Block B, Wisma Semantan, No.12, Jalan Gelenggang, Bukit Damansara,
50490 Kuala Lumpur, Malaysia

KENWOOD follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.